




2008

Fore! The Effect of Poquoy Brook Golf Course on the Water Quality of Poquoy Brook

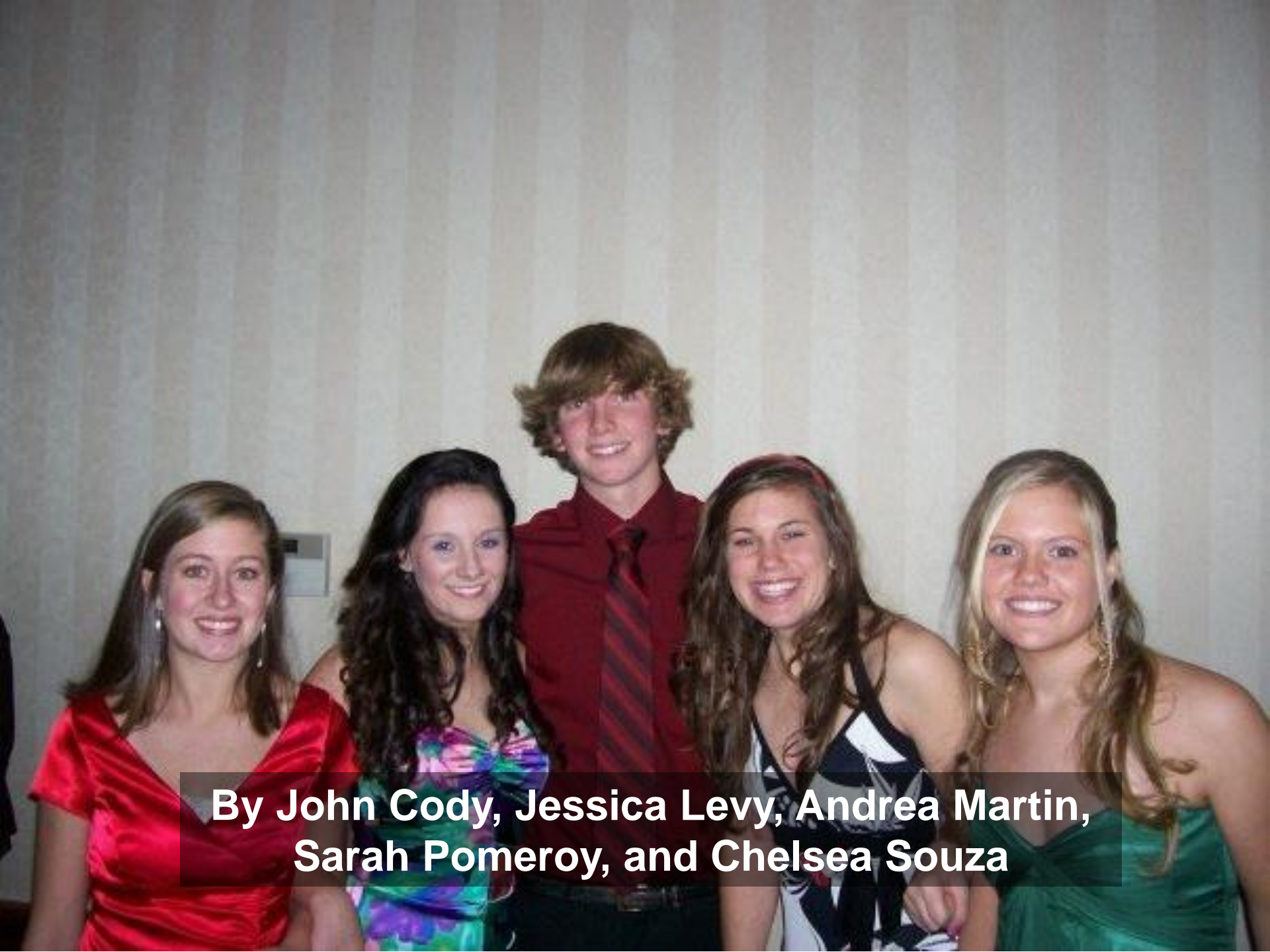
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Available at: http://vc.bridgew.edu/wal_projects/84

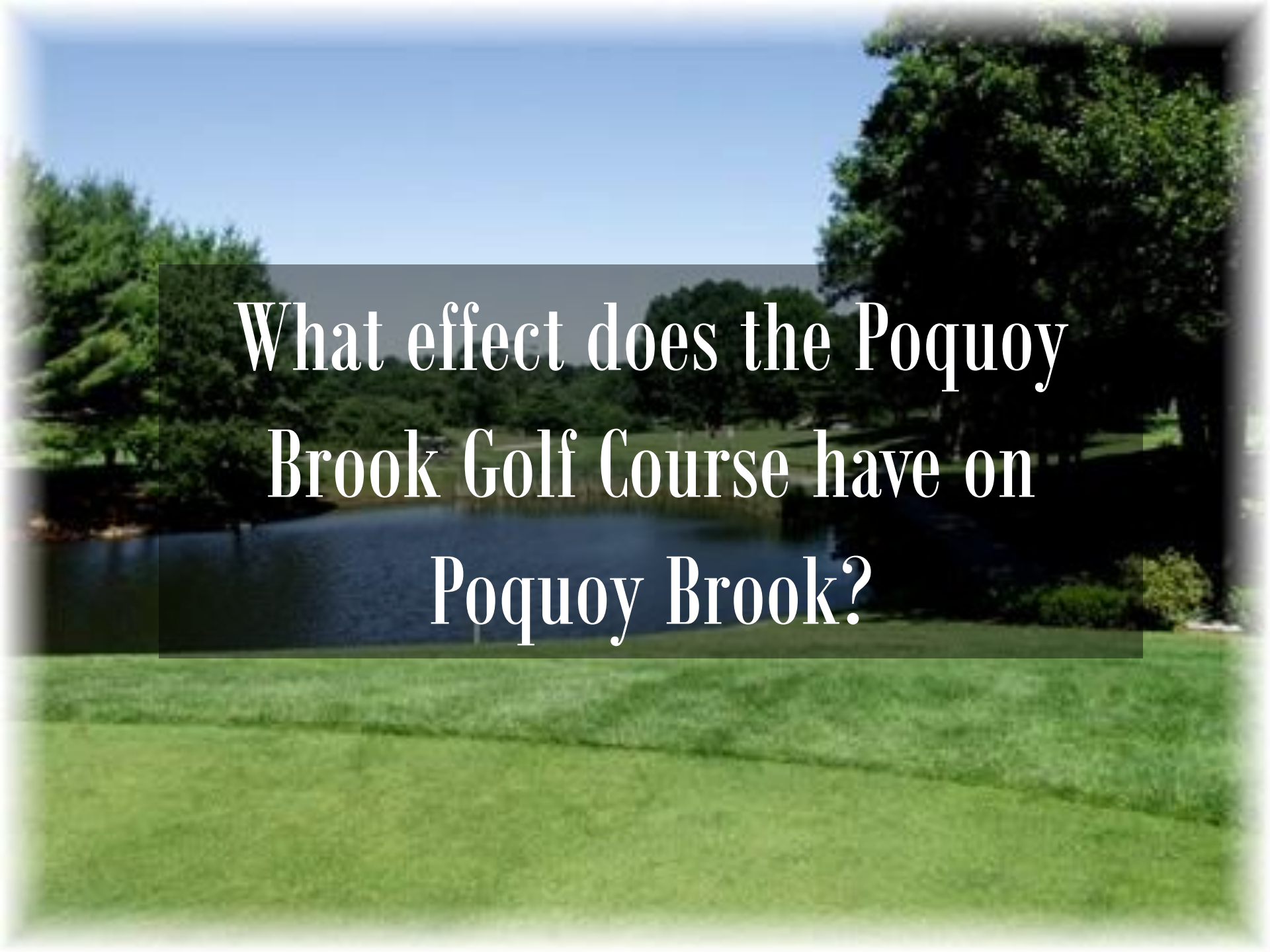
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A wooden sign with a green background and gold lettering that reads "POQUOY BROOK" and "GOLF & COUNTRY CLUB" is mounted on a wooden post. The background of the slide shows a lush green landscape with trees and a stone wall.

Fore!: The Effect of Poquoy Brook Golf Course on the Water Quality of Poquoy Brook



**By John Cody, Jessica Levy, Andrea Martin,
Sarah Pomeroy, and Chelsea Souza**

A scenic photograph of a golf course. In the foreground, there is a well-maintained green lawn. In the middle ground, a calm body of water, likely Poquoy Brook, reflects the surrounding greenery. The background is filled with dense, mature trees under a clear blue sky. The text is overlaid on a semi-transparent dark grey rectangular area in the center of the image.

What effect does the Poquoy
Brook Golf Course have on
Poquoy Brook?

History of Poquoy Brook

Poquoy Brook Golf Course was designed by Jeffrey Cornish and built by Ray Marcos in 1962. Since the golf course's opening, it has seen two owners, the Marcos family, and Charlie Dickow, who purchased it in 1992. Poquoy Brook Golf Course covers 168 acres and sees an average of 127 golfers a day in the high season (or anywhere between 80-240). There have been recent renovations on the 2nd and 9th tee.

2008 Poquoy Brook Land Use Map



0 400 800 1,600 Meters **4**

John Cody

Cranberry Bogs Draining into Poquoy

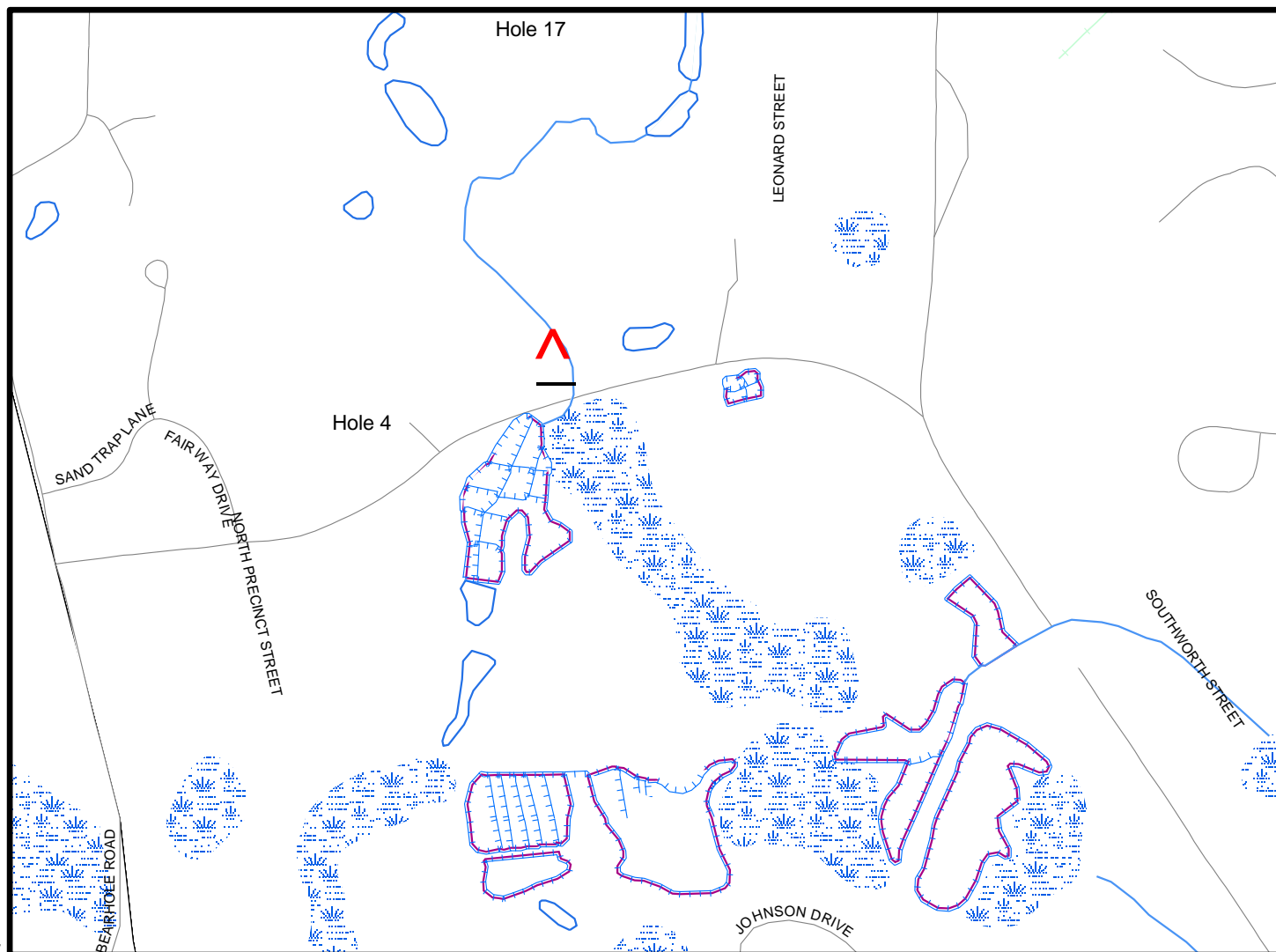
Legend

- BC
- CSX
- G and U
- Guilford
- Housatonic
- MCR
- NECR
- P and W
- PV
- QB
- Perennial Stream
- Intermittent Stream
- Shoreline
- Intermittent Shoreline
- Manmade Shoreline
- Ditch/Canal
- Aqueduct
- Dam
- Channel in Water
- Pond, Lake, Ocean
- Reservoir
- Wetland
- Salt Wetland
- Submerged Wetland
- Cranberry Bog
- Tidal Flat
- Inundated Area
- Highway Exit Locations

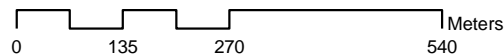
All Roads

Road Classification

- Limited Access Highway
- Multi-lane Hwy, not limited access
- Other Numbered Highway
- Major Road, Collector
- Minor Road, Arterial



4



Jessica Levy
2.25.08

Transportation Around Poquoy

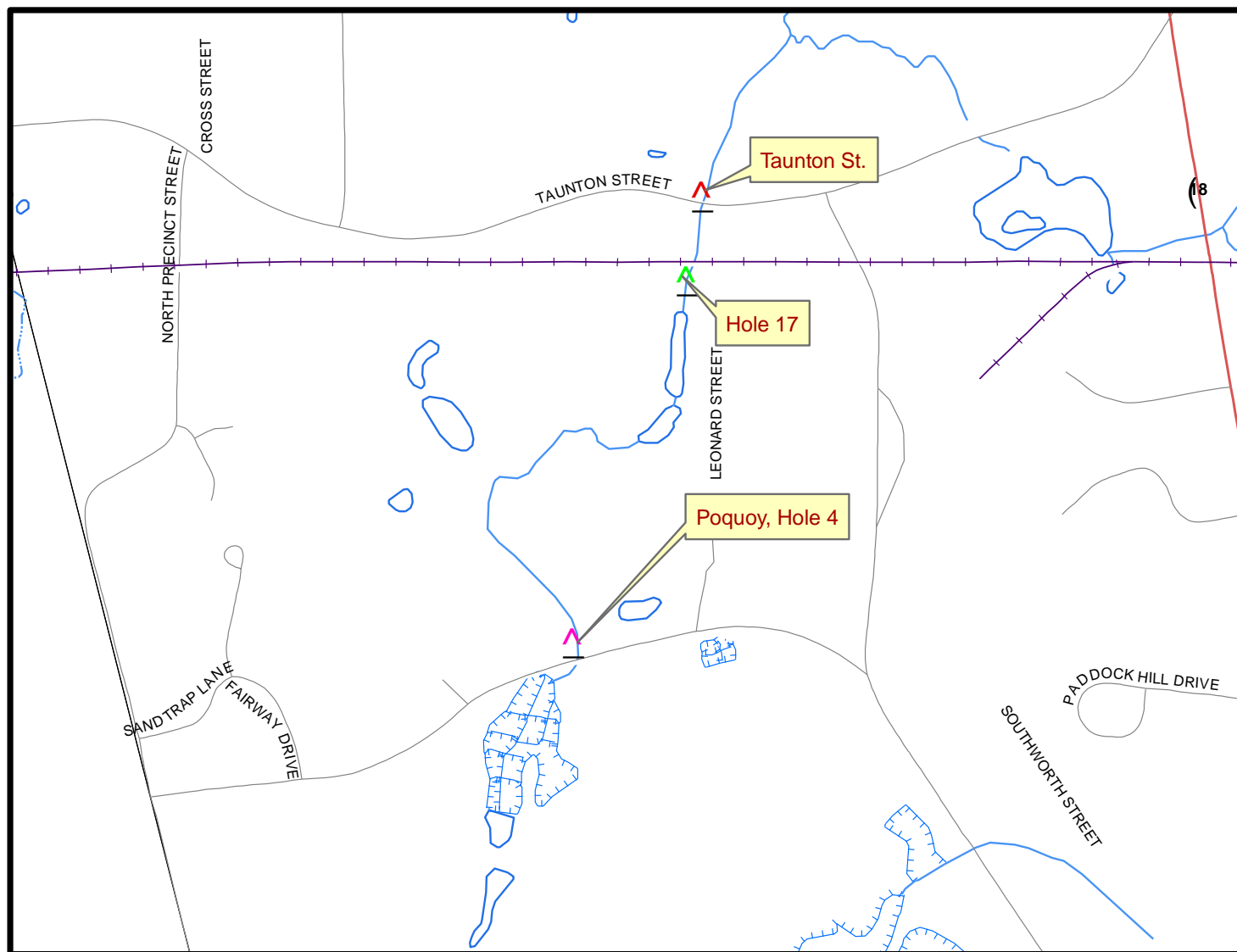
Legend

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All Roads

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- Perennial Stream
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- Shoreline
- Intermittent Shoreline
- Manmade Shoreline
- Ditch/Canal
- Aqueduct
- Dam
- Channel in Water
- MA Towns..Solid Outline



4

Andrea Martin
2/24/07

0 205 410 820 Meters

A wide-angle photograph of a golf course landscape. In the foreground, a narrow stream flows through a grassy area, with some reeds and grasses growing in the water. A small, dark, arched bridge crosses the stream in the middle ground. The background features a line of trees, including evergreens and bare deciduous trees, under a cloudy sky. The overall scene is a peaceful, natural setting on a golf course.

Sites



Hole 4



Hole 4



Hole 17



Hole 17



Taunton St.

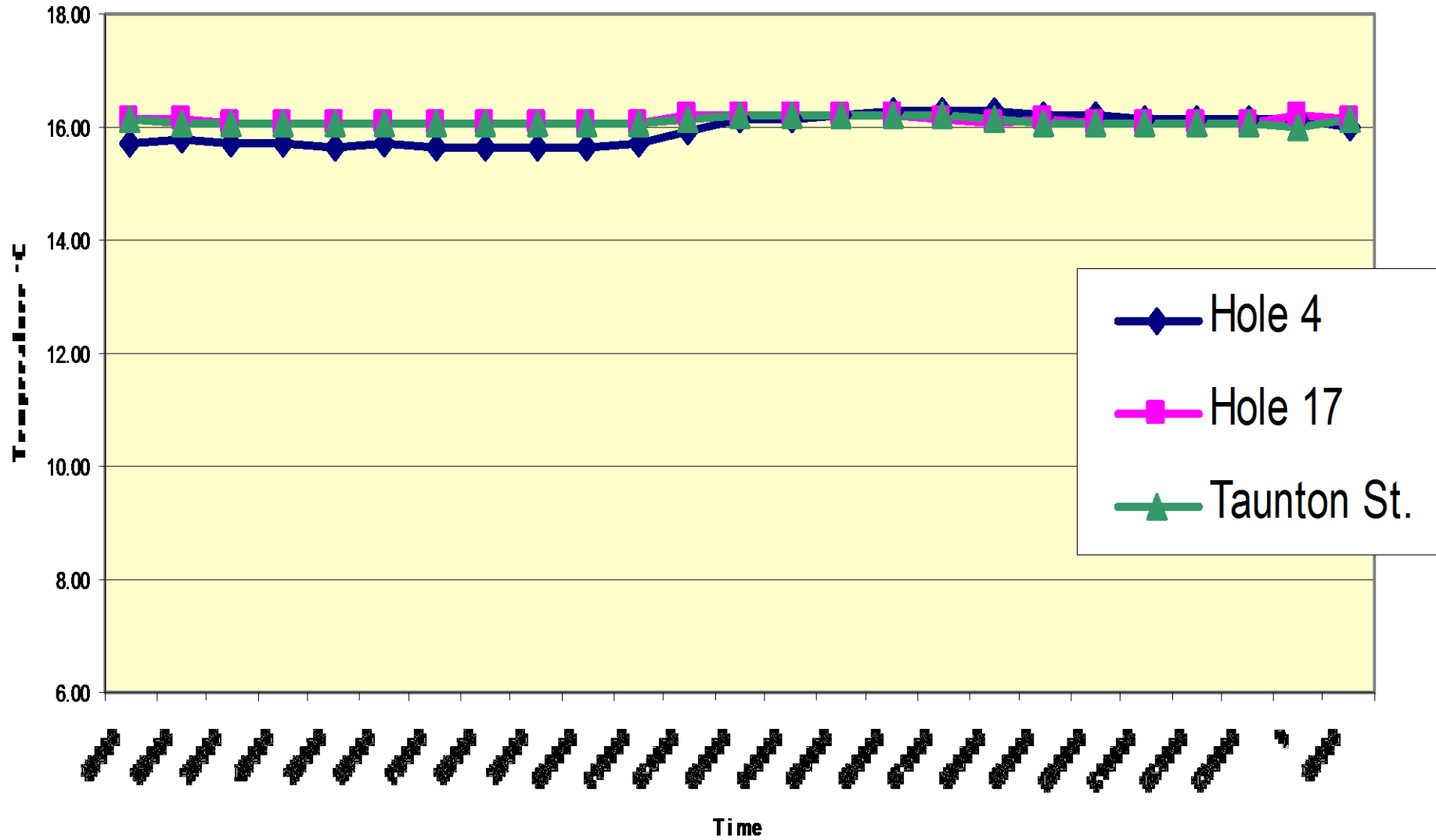


Taunton St.

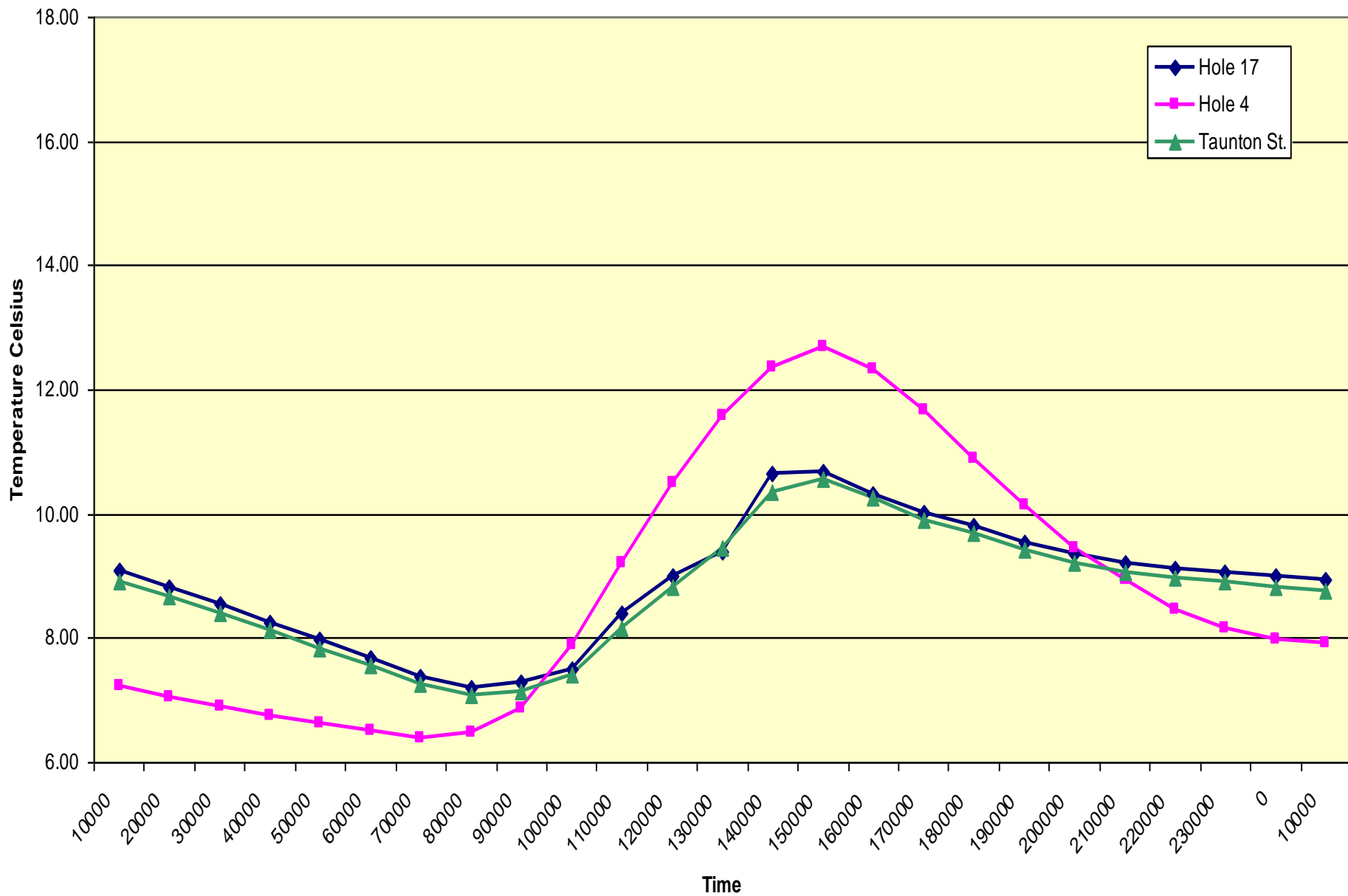
A photograph of a golf course green. In the foreground, a large, dark tree trunk and its shadow are visible on the left. The green is a vibrant, well-maintained grass. In the background, a dense line of trees stretches across the horizon under a clear blue sky. A semi-transparent dark rectangle is centered over the image, containing the word "Data" in white serif font.

Data

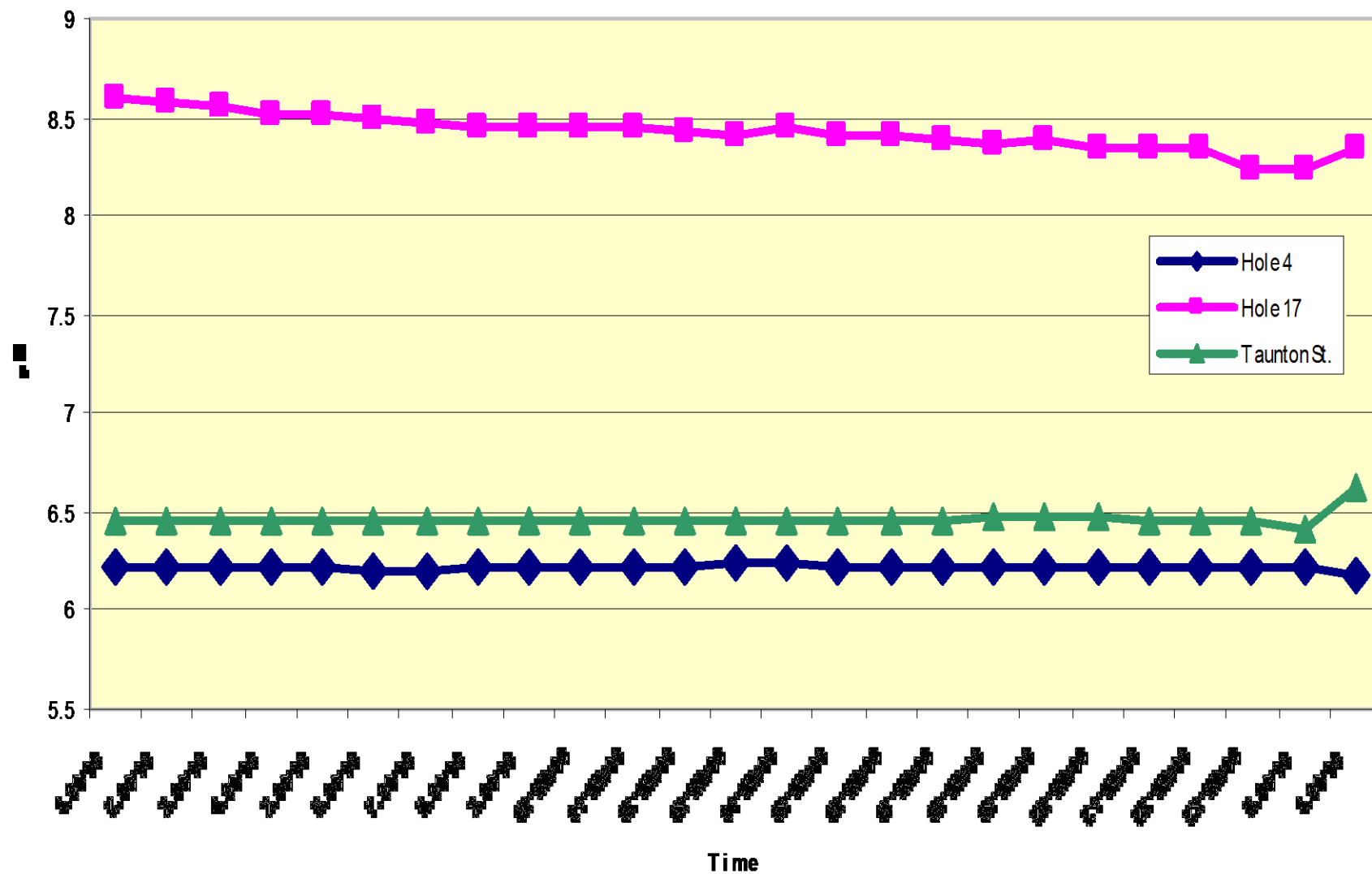
Temperature vs. Time, Poquoy Brook, 10/11/07-10/12/07



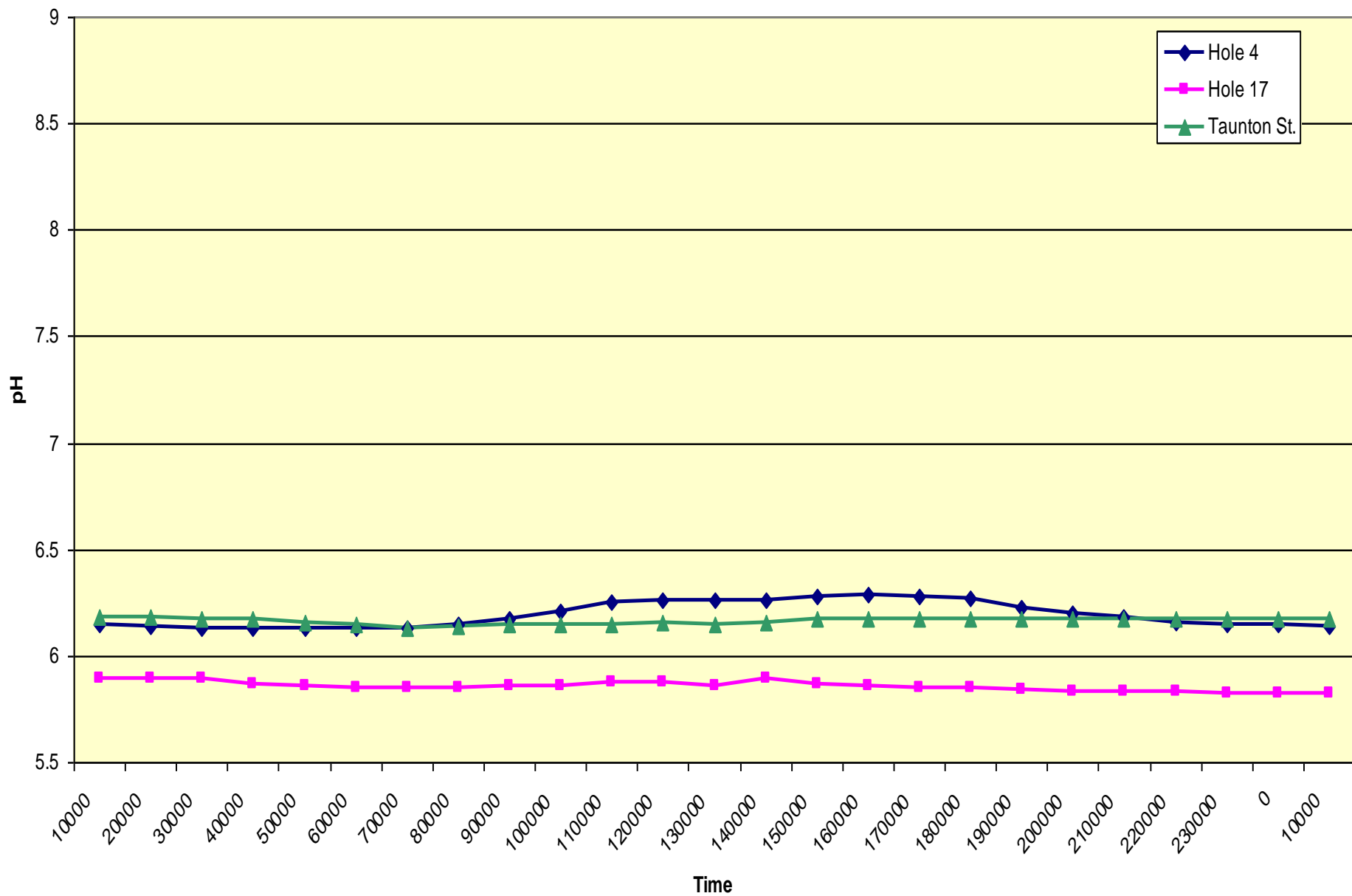
Temperature Vs. Time, Poquoy Brook, 04/03/08-04/04/08



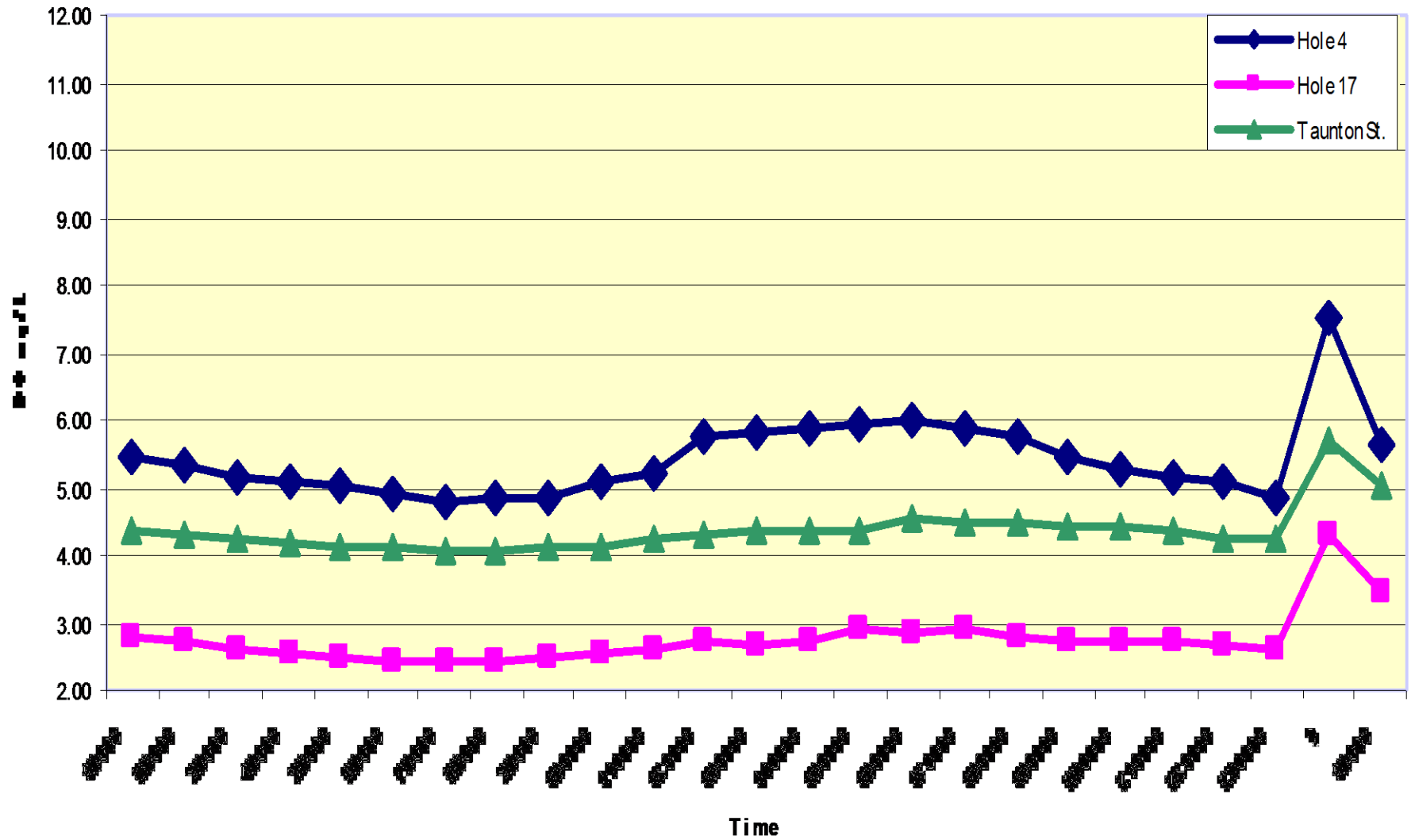
pH vs. Time, Poquoy Brook, 10/11/07-10/12/07



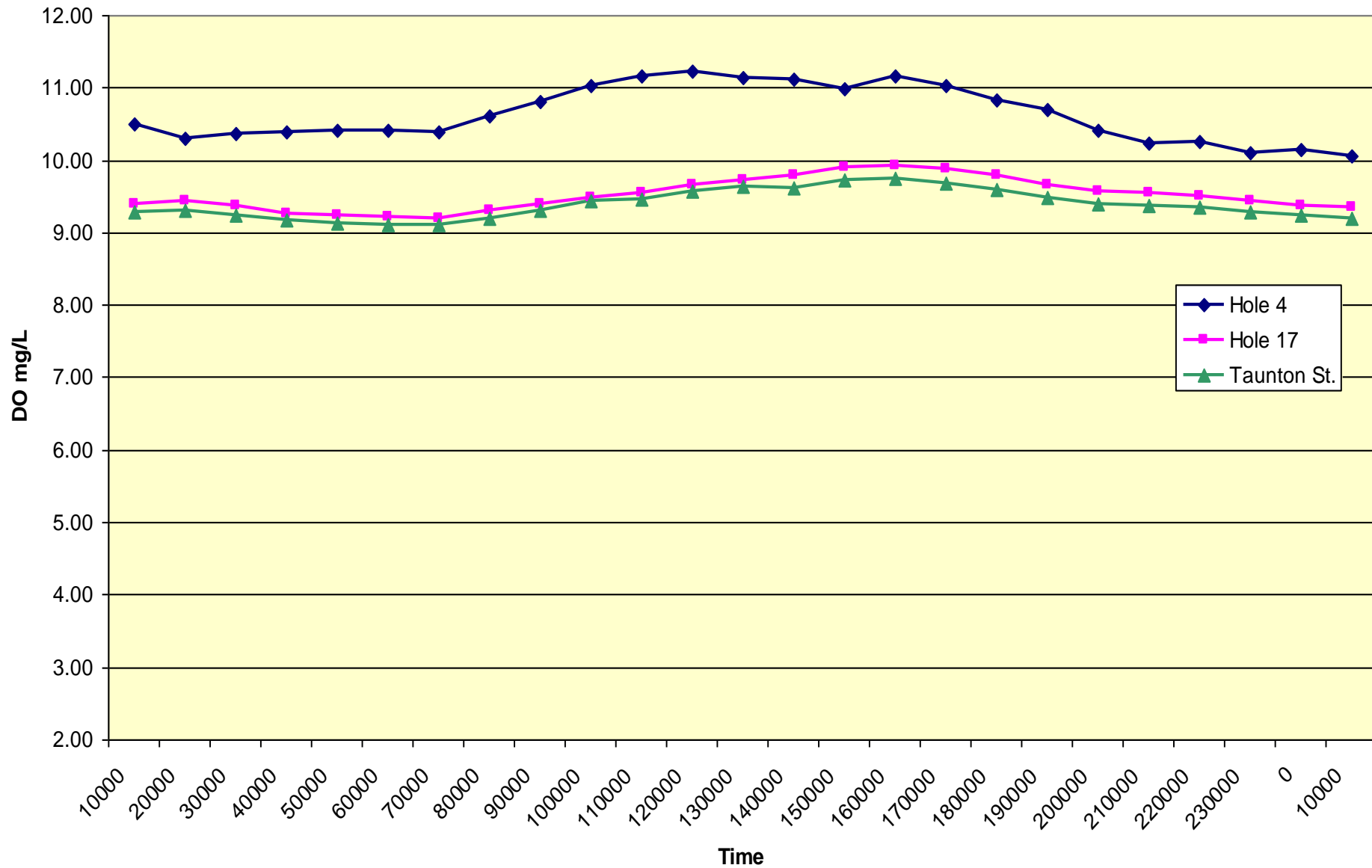
pH vs. Time, Poquoy Brook, 04/03/08-04/04/08



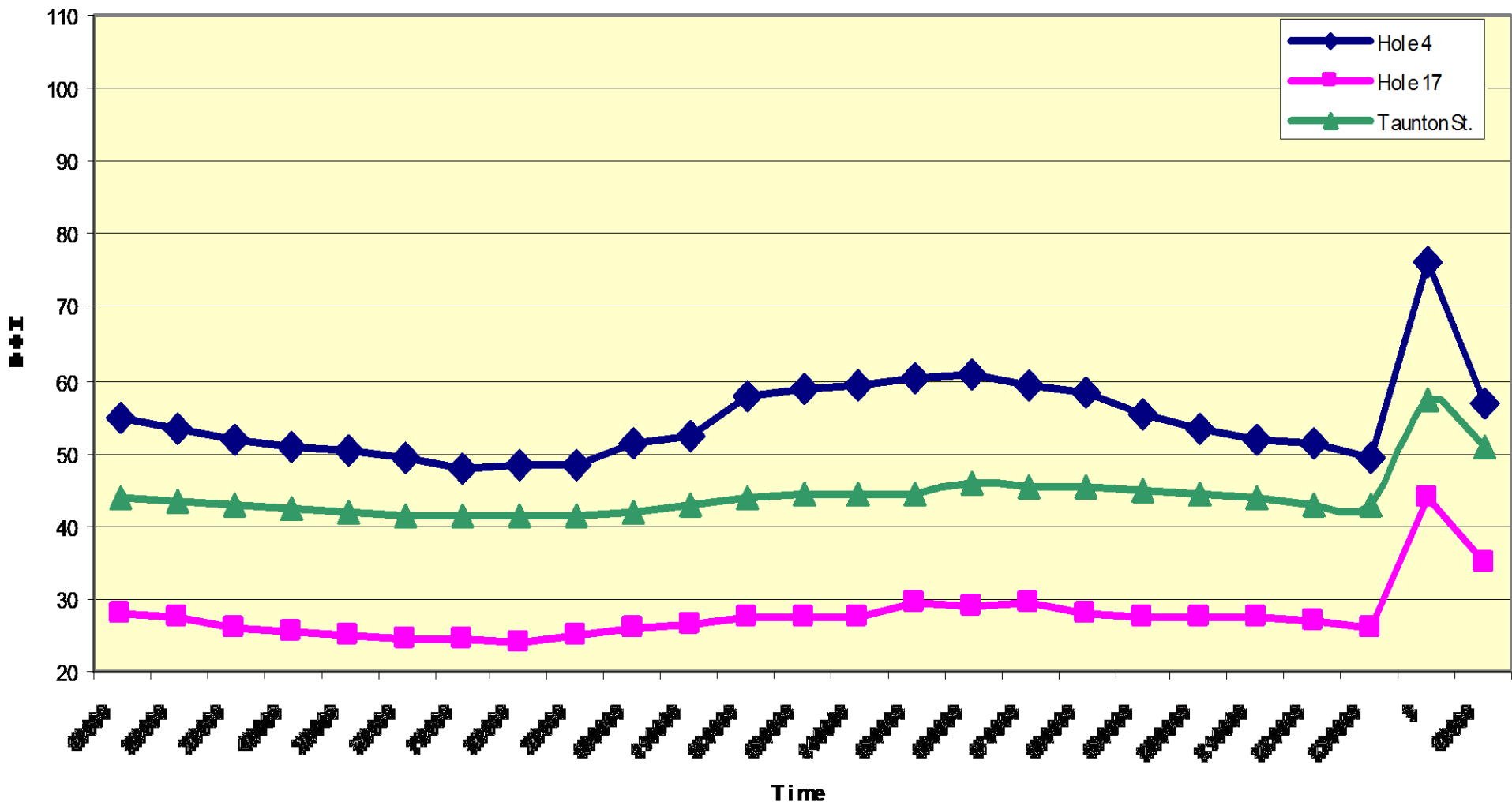
Dissolved Oxygen vs. Time, Poquoy Brook, 10/11/07-10/12/07



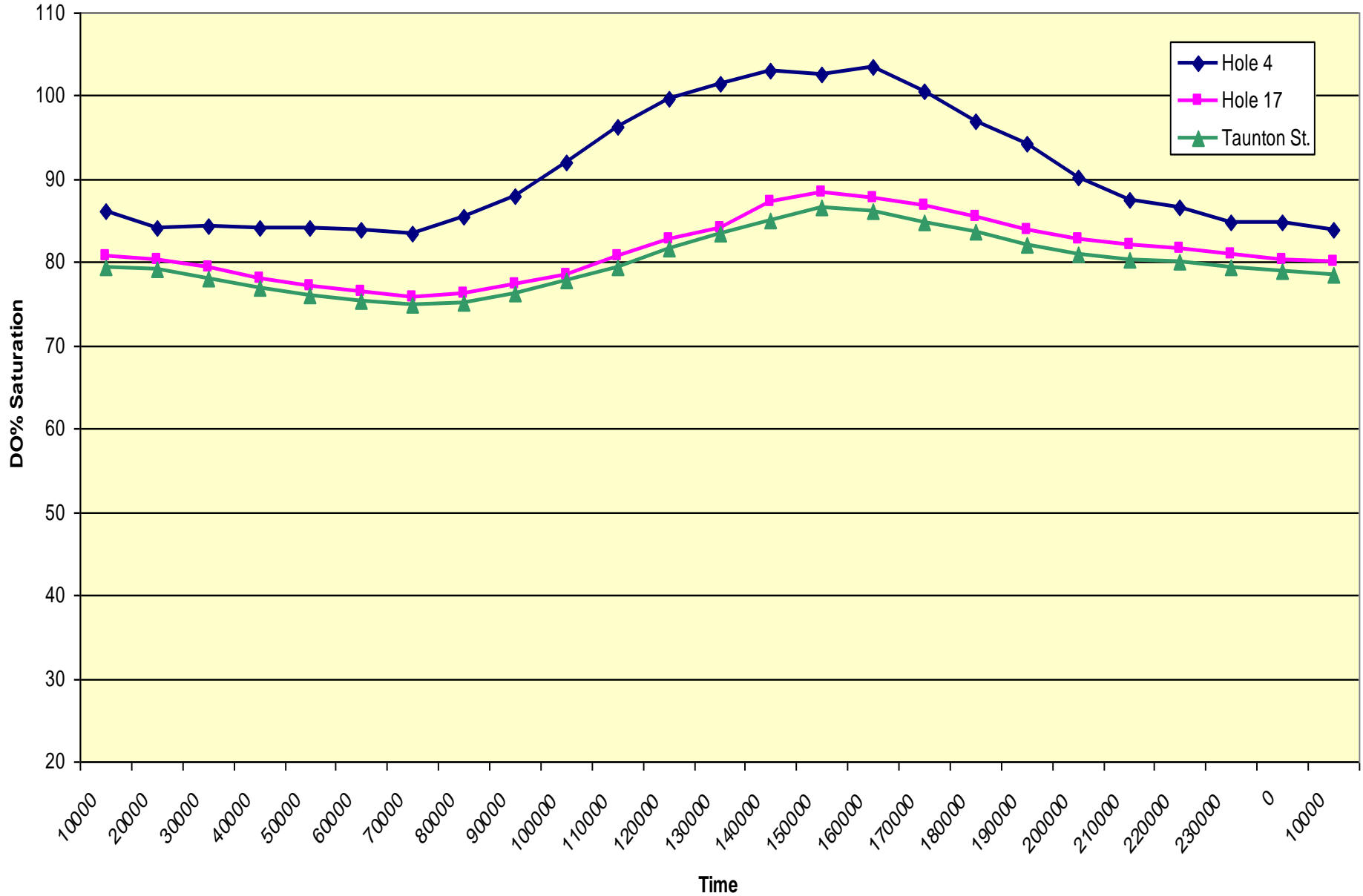
Dissolved Oxygen vs. Time, Poquoy Brook, 04/03/08-04/04/08



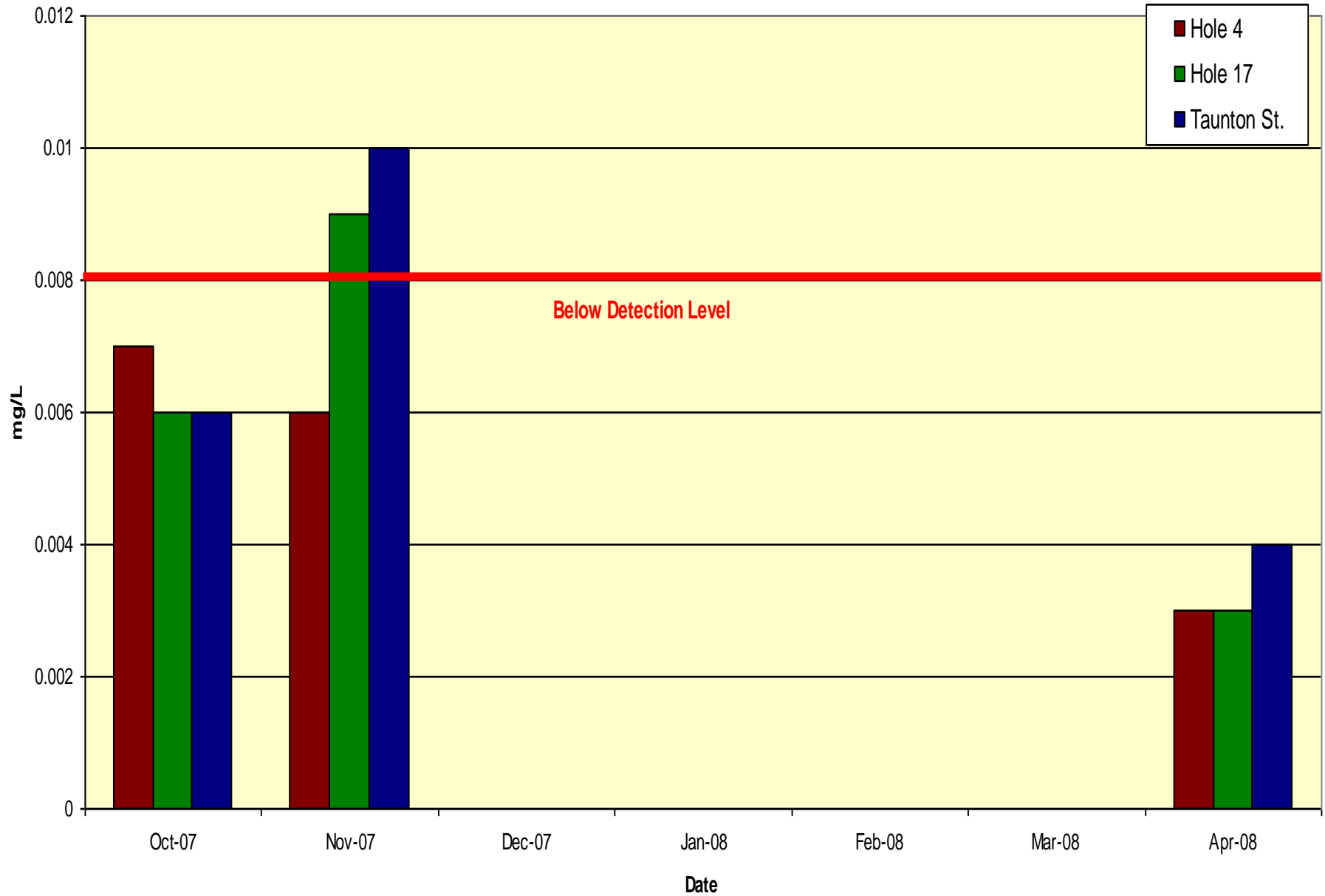
Dissolved Oxygen Percent Saturation vs. Time, Poquoy Brook, 10/11/07-10/12/07



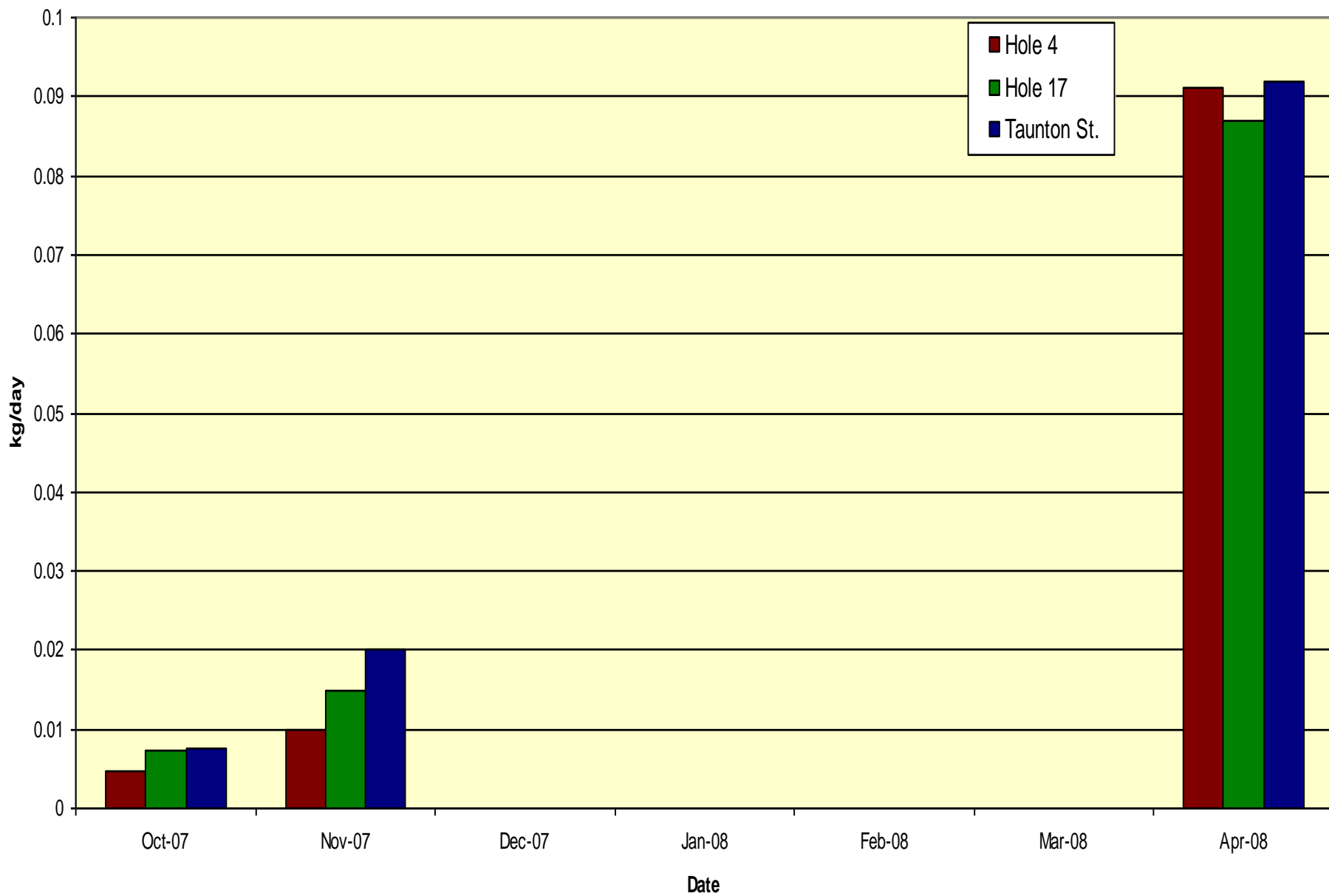
Dissolved Oxygen Saturation vs. Time, Poquoy Brook, 04/03/08-04/04/08



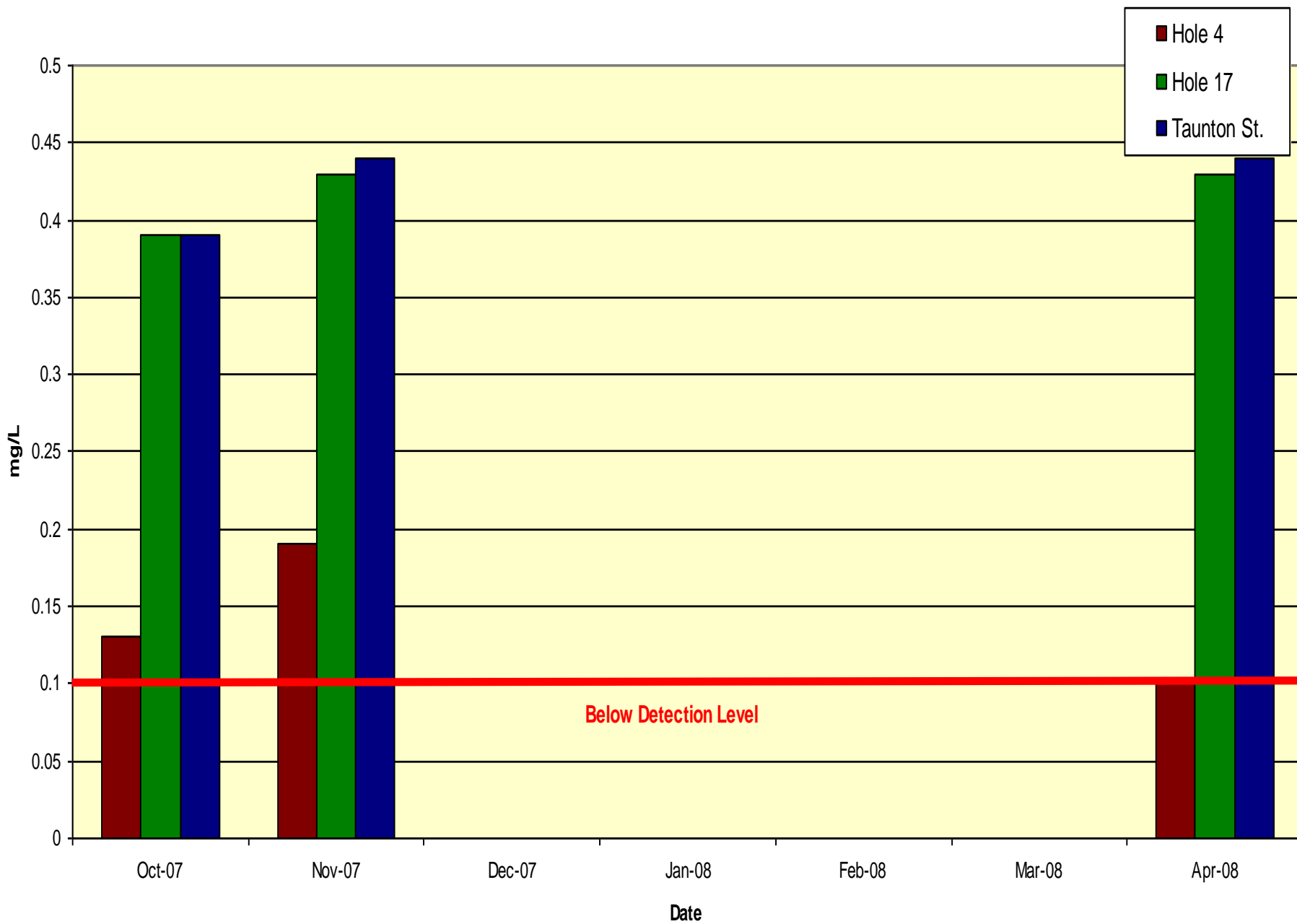
Reactive Phosphorus, Poquoy Brook



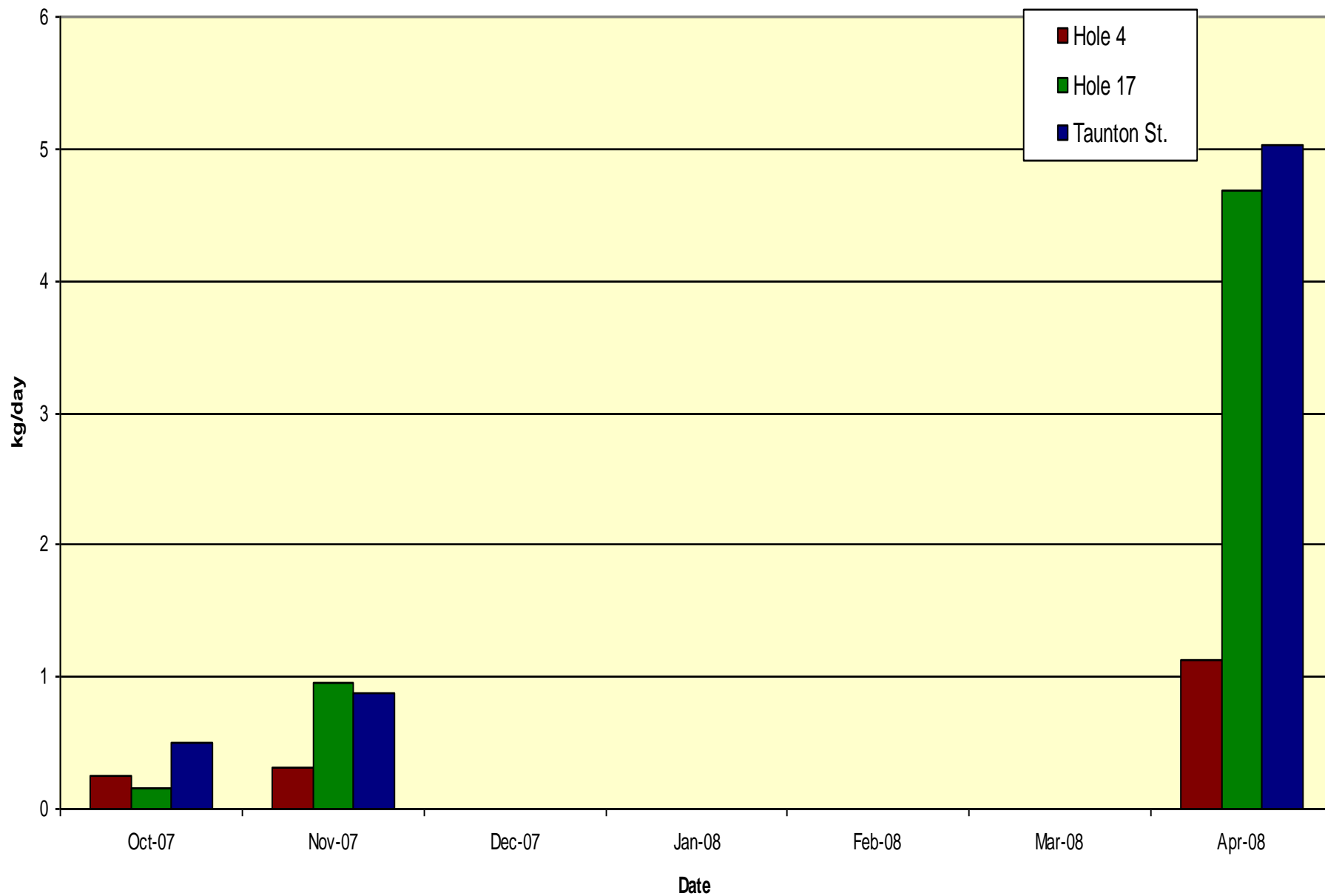
Load of Reactive Phosphorus, Poquoy Brook



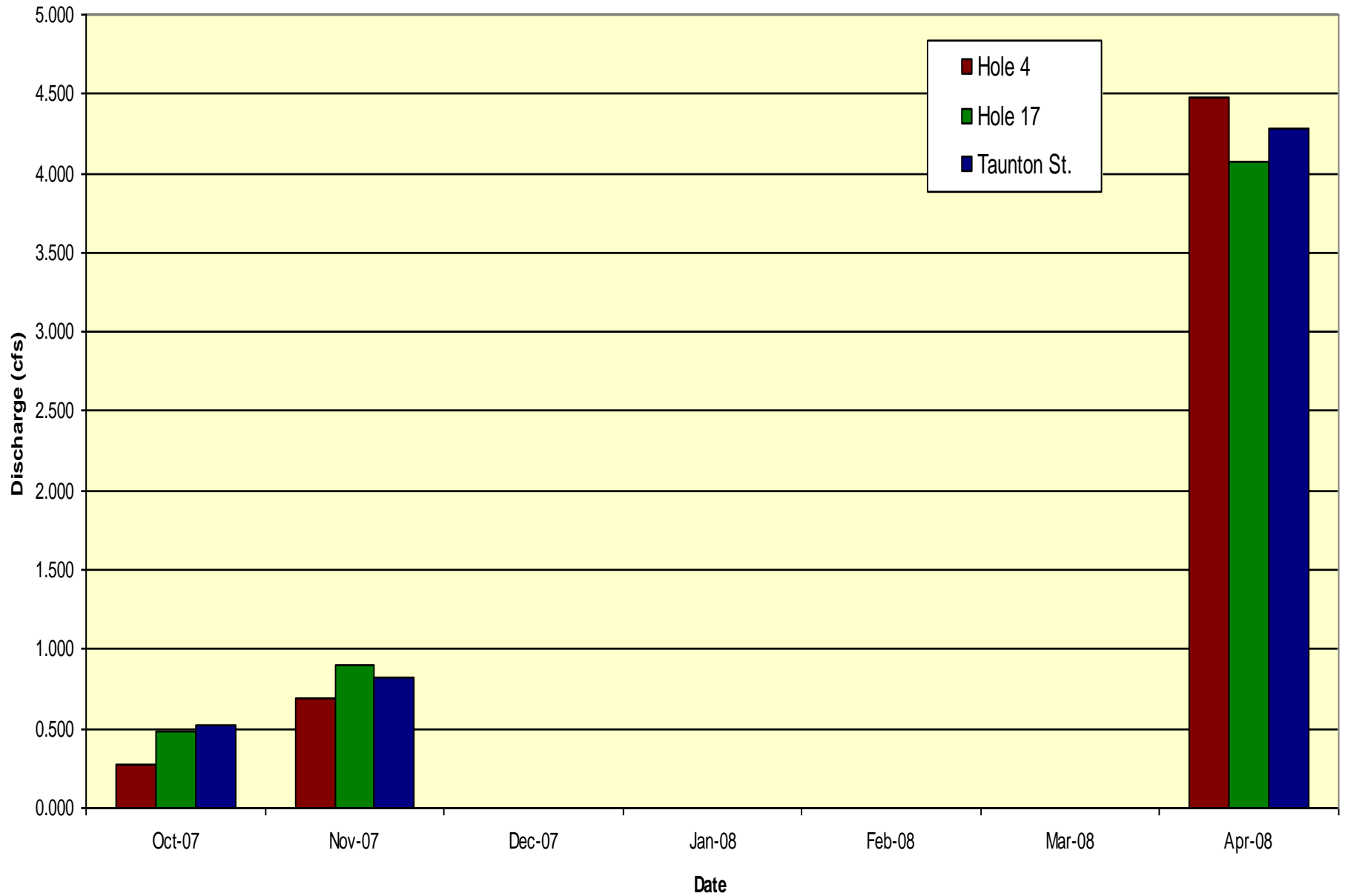
Nitrogen as Nitrate (N/NO3), Poquoy Brook



Load of Nitrogen as Nitrate (N/NO₃), Poquoy Brook



Discharge of Poquoy Brook



A scenic view of a golf course featuring a calm pond in the foreground, surrounded by lush green grass and several large, mature trees. The background shows a well-maintained golf course with a green and a sand trap, all under a bright sky. The text 'Macroinvertebrates' is overlaid in a large, white, serif font on a dark, semi-transparent rectangular background.

Macroinvertebrates

Hole 4 Macro Invertebrates

Hydropsychidae	66	Intolerant-18.80%
Chironomidae	1	Tolerant-80.91%
Amphipoda	129	FBI-7.88
Aselliade	128	Very Poor
Gastropoda	1	
Hirudinea	25	
Tubellaria	1	



Taunton St. Macro Invertebrates

Hydropsychidae	58
Chironomidae	8
Coenagrionidae	1
Elmidae	24
Amphipoda	37
Aselliade	21
Gastropoda	2
Pelecypoda	1
Oligochaeta	6
Hirudinea	31
Tubellaria	16

Intolerant-28.29%

Tolerant-52.20%

FBI-6.2

Fairly Poor



Conclusion

We have concluded that the cranberry bogs on Southworth Street and the native geese have more of an impact on Poquoy Brook than Poquoy Brook Golf Course.

Acknowledgements

Thank You to:

Mrs. McNally

Poquoy Brook Golf Course

Mark Pendergast, Superintendent

Gary Cardoza, Head Golf Pro

Charles Dickow, Owner

The Dias Family

Dr. Curry

Kim McCoy

Dave Thomas, Chief Engineer of Middleboro Waste
Treatment Plant

Documentation

Behar, Sharon. Testing the Waters. 1st ed. 1997.

"Picture Gallery." Poquoy Brook Golf Course. 2008. 1-2-1 Marketing. 4 Apr 2008 <<http://www.poquoybrook.com/content/view/16/41/>>.

